

ARLECDON and FRIZINGTON
URBAN SANITARY AUTHORITY.

TENTH
ANNUAL REPORT

OF

JAMES I. LACE,
MEDICAL OFFICER OF HEALTH,
FOR THE YEAR 1893.

FRIZINGTON:

PRINTED BY W. MOSSOP, 30, MAIN STREET.

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THIRLMERE HOUSE,

FRIZINGTON,

VIA CARNFORTH,

26th February, 1894.

MR. CHAIRMAN AND GENTLEMEN,—

I have the honour of submitting to your notice my Tenth Annual Report on the Health and Mortality of the Urban Sanitary District, together with an account of the Sanitary Work accomplished during the year 1893. In addition to the usual tabular statements (required to be supplied to the Local Government Board) of sickness and mortality within the district, other tables are appended, containing important statistical information.

In dealing with the Vital Statistics, I estimate the population of the district, up to the middle of 1893, to be 5,200, a decrease of 200, as compared with 1892, and 439, as compared with the census of 1891. During the twelve months ending December 31st, 1893, there were registered in the district 206 births—110 boys and 96 girls—a slight decrease from last year, and 1·30 under the average for the past ten years. The birth-rate was 39·61 per thousand of the population in the entire district—38·75 in Arlecdon and 40·00 in Frizington.

The total number of deaths recorded in the district during the year 1893 amounted to 91—42 males and 49 females

—22 being registered in the Township of Arlecdon, and 69 in the Township of Frizington. This number represents an actual increase of 16 upon the year 1892. The rate of mortality for the year was equivalent to 17·50 per thousand, living on an estimated population of 5,200, to the middle of the year, being 3·62 higher than that in 1892.

The death-rates in the district for the quarterly periods were :—

1st Quarter	...	...	20·80	...	...	27 deaths.
2nd „	...	...	13·84	...	...	18 „
3rd „	...	...	13·84	...	...	18 „
4th „	...	...	21·53	...	...	28 „

It will be observed that there is a marked rise in the deaths recorded for the past year, which was due principally to diseases of the respiratory organs and whooping-cough. The excess of births over deaths, representing the natural increase to the population, was 115, this being 23 less than in 1892. The death-rate, as compared with the mean mortality of the preceding ten years (16·33), shows an increase of 1·17 per thousand.

The mortality among children under one year (including premature births) numbered 39, that for the previous year 27. Measured by the proportion of deaths to births registered, the infantile death-rate was equal to 189 per thousand, as compared to 126 in 1892. The deaths among infants have been above last year, and also higher than any previous year since the formation of the Board in 1882.

The senile deaths, or deaths of persons aged 65 and upwards, numbered 15, which represents a percentage of 16·48, or 4·85 lower than that of last year.

It is interesting to state that during the past year, with the exception of whooping cough, deaths caused by preventible diseases, are conspicuous by their absence. In the latter part of the year, whooping cough of a very serious and fatal character, became epidemic, first attracting notice in September at Frizington, where several cases occurred and spread rapidly in every part of the district, among young children who had not had it before, and were brought within its influence. The six deaths ascribed to whooping cough, which is a very serious contribution to our zymotic rate, occurred among children under five years of age at Frizington during the last quarter of 1893, viz., one in October, two in November, and three in December. It is impossible to say, with exactitude, what number of children suffered from this disease, but I have notes of 96 cases.

Two cases of scarlatina, of a mild type, were brought under my notice by means of compulsory notification, as having occurred in the month of November, at No. 27 Rowrah Road, Arlecdon. The source of infection was not traceable. Precautionary measures were taken, and no extension of the disease occurred.

The usual general inspection of the district has been made, and, in addition to the ordinary monthly reports, I prepared a Special Report for your Board in the month of November, in which I particularized or scheduled certain properties which had been found to be in a state so injurious to health as to be unfit for human habitation. There were in all thirty-four houses—twelve at Winder Gate, five in Dyke Nook, eight in Jane Street, Frizington, and nine in Mona

Street, Arlecdon. The whole of these houses, with two exceptions, were unoccupied at the time of inspection. Little or no regard appears to have been paid to the essential sanitary requirements in the construction of these dwellings. By far the greater number of the condemned houses have been built within the last twenty years, and showed unmistakable evidence that the speculative and jerry builders had been engaged in the work.

I append the Seventh Annual Report of your Sanitary Inspector, which gives particulars of his work during the year.

My thanks are again due to Mr. W. H. Watson, F.C.S., F.G.S., for the Climatological Table, prepared from meteorological observations made at Braystones since 1864.

I have the honour to remain,

Mr. Chairman and Gentlemen,

Yours obediently,

J. I. LACE,

Medical Officer of Health.

TABLE I.—Births.

The total number of Births, Male and Female, Legitimate and Illegitimate, and Birth-rate per 1000 of the population of the District, and the percentage of Illegitimate to the total Births.

DISTRICTS.	Estimated popu- lation to the middle of 1893.	BIRTHS.					Rate per 1000 Population.	Percentage of Illegitimate.
		Legitimate		Illegitim'te		1893.		
		Male	Female	Male	Female	Total.		
Arlecdon .	1600	29	29	2	2	62	38·75	6·45
Frizington .	3600	75	62	4	3	144	40·00	4·85
The entire District .	5200	104	91	6	5	206	39·61	5·34

TABLE II.—Deaths in the District from January 1st to December 31st, 1893.

Deaths under 1 year of age	...	...	39	47
„ of 1 „	„	„ and under 5 years	8	under 5 years.
„ „ 5 „	„	„ „ 15 „	5	44 over 5 years.
„ „ 15 „	„	„ „ 25 „	6	
„ „ 25 „	„	„ „ 65 „	18	
„ „ 65 „	„	„ and upwards	15	
Total			...	91

TABLE III.—Deaths from January 1st to
December 31st, 1893.

Extent, Population, and Mortality.	Township of Arlecdon.	Township of Frizington	The Entire District.
Area in Acres	1,569½	2,079½	3,649
Population Census, 1891 ...	1,504	4,135	5,639
„ estimated to the middle of 1893	1,600	3,600	5,200
Deaths from the nine chief zymotic diseases ... }	0	6	6
Deaths from other causes ...	22	63	85
Total deaths for the year ...	22	69	91
Death-rate from the nine chief zymotic diseases per 1,000 }	0	1·66	1·15
Death - rate from all other causes per 1,000 ... }	13·75	17·50	16·53
General death-rate per 1,000...	13·75	19·16	17·50

TABLE IV.—Deaths from the Nine Chief
Zymotic Diseases.

Small-pox	0	} = 6
Measles	0	
Scarlatina	0	
Diphtheria	0	
Croup (not spasmodic)	0	
Whooping Cough	6	
Typhus Fever	0	
Enteric or Typhoid Fever	0	}
Diarrhœa and Dysentery	0	

TABLE V.—Showing Percentage of Infant
and Senile Deaths.

Deaths under 1 year 39, or 42·85 per cent.
,, over 65 years 13, or 14·28 per cent.

TABLE VI.—Death-rate for Arlecdon and Frizington,
as required by the Local Government Board, 1894.

Names of Diseases.	Under 5 years.	5 Years and upwards.
Small-pox	0	0
Scarlatina	0	0
Diphtheria	0	0
Membranous Croup	0	0
Typhus	0	0
Enteric or Typhoid	0	0
Continued	0	0
Relapsing	0	0
Puerperal	0	1
Cholera	0	0
Erysipelas	0	0
Measles	0	0
Whooping Cough	6	0
Diarrhoea and Dysentery	0	0
Rheumatic Fever	0	0
Ague	0	0
Phthisis	1	7
Bronchitis, Pneumonitis, and Pleuritis	12	10
Heart Disease	0	4
Injuries	0	2
All other Diseases	28	20
TOTALS	47	44

TABLE VII.—Summary.

	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893
Total Births ..	234	208	194	172	174	192	235	204	213	206
Annual Birthrate per 1,000 pop- ulation ..	46·33	41·18	38·41	34·05	34·45	34·28	39·16	36·17	39·44	39·61
Total Deaths ..	96	82	80	82	78	95	112	77	75	91
Annual Mortality per 1,000 pop- ulation ..	19·00	16·23	15·84	16·23	15·44	16·96	18·66	13·65	13·88	17·50

*To the Chairman and Members of the Arlecdon and Frizington
Local Board.*

GENTLEMEN,

The following is the Seventh Annual Report which I have the honour to lay before you, and which gives particulars of the work (Sanitary) done under your authority for the year 1893. I have also, in company with the Medical Officer, made a house to house inspection of the District.

I am, Mr. Chairman and Gentlemen,

Yours obediently,

JNO. WEBB.

TABLE VIII.—Showing Particulars of the Work done
by the Board during the year 1893.

	No.
Inspections made	1,110
Nuisances reported	49
Nuisances abated without formal notice	25
Formal Notices served	32
New Main Sewers laid yards	50
Street Water Drains „	0
Privies converted into w.c.'s	8
New Water Closets built	5
Public Urinals	2
Ashpits removed	0
Houses connected with Main Sewer... ..	5
„ „ to Water Mains	8

TABLE IX.

Table of Deaths during the Year 1893, in the Urban Sanitary District of Arlecdon and Frizington, classified according to Diseases, Ages and Localities.

. NAMES OF LOCALITIES.	Mortality from all causes at subjoined Ages.							Mortality from Subjoined Causes, distinguishing Deaths of Children under Five Years of Age.																															
	At all ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwads	FEVERS.										Small-pox	Scarlatina	Diphtheria	Membranaceous Group	Typhus	Enteric or Typhoid	Continued	Relapsing	Puerperal	Cholera	Erysipelas	Measles	Whooping Cough	Diarrhoea and Dysentery	Rheumatic Fever	Ague	Phthisis	Bronchitis&Pneumonia&Pleurisy	Heart Disease	Injuries	All other Diseases.	Totals.
ARLECDON	22	9	1	0	2	6	4	Under 5	5 upwards..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	8	14
FRIZINGTON	69	30	7	5	4	12	11	Under 5	5 upwards..	1	8	6	24	39	30		
TOTALS	91	39	8	5	6	18	15	Under 5	5 upwards..	..	..	..	..	..	..	..	..	..	..	..	..	1	12	..	..	6	..	..	..	..	..	..	..	28	47	44

TABLE X.

Table of Population, Births, and of New Cases of Infectious Sickness, coming to the knowledge of the Medical Officer of Health, during the Year 1893, in the Urban Sanitary District of Arlecdon and Frizington, classified according to Diseases, Ages and Localities.

NAMES OF LOCALITIES.	Population at all Ages.		Registered Births	New Cases of Sickness in each locality coming to the knowledge of the Medical Officer of Health.										No. of such Cases removed from their Homes in the several localities for treatment in Isolation Hospital.										
	Census, 1891	Estimated to middle of 1893		FEVERS.										Small-pox	Scarlatina	Diphtheria	Membranaceous Group	Typhus	Enteric or Typhoid	Continued	Relapsing	Puerperal	Cholera	Erysipelas
				Small-pox	Scarlatina	Diphtheria	Membranaceous Group	Typhus	Enteric or Typhoid	Continued	Relapsing	Puerperal	Cholera												Erysipelas
ARLECDON	1504	1600	62	Under 5 5 upwards	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
FRIZINGTON	4135	3600	144	Under 5 5 upwards . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTALS	5639	5200	206	Under 5 5 upwards	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Notification of Infectious Disease is compulsory in the District and has been since 19th May, 1890.
Galemire Joint Fever Hospital, in the Whitehaven Union Rural Sanitary Authority's District, near Cleator Moor.

RAINFALL AND EVAPORATION AT BRAYSTONES,

— IN THE YEAR 1893. —

Month.	Rain.	Evaporation.
January	0·96 Inches	1·08 Inches
February	5·62 „	0·95 „
March	1·31 „	2·33 „
April	0·64 „	3·52 „
May	2·29 „	4·07 „
June	1·02 „	5·06 „
July	3·24 „	4·52 „
August	4·76 „	3·55 „
September	2·83 „	2·29 „
October	5·51 „	0·96 „
November	1·97 „	1·04 „
December	4·02 „	1·01 „
TOTAL	34·17 Inches	30·38 Inches

The rain in the year 1893 was 3·13 inches less than in the year 1892, and 2·17 inches less than the average of the previous 29 years. The evaporation was 3·67 inches greater than in the year 1892, and exactly one inch more than the average of the previous 29 years.

Rainfall and Evaporation since 1863.

At Braystones, near Whitehaven, Cumberland.

Year.	Rain.	Evaporation.
	INCHES.	INCHES.
1864	35·02	28·93
1865	33·20	30·07
1866	40·80	30·19
1867	33·24	28·73
1868	35·65	33·85
1869	40·77	32·07
1870	31·17	30·87
1871	32·92	31·06
1872	51·91	30·09
1873	36·62	29·75
1874	37·84	30·47
1875	34·61	28·97
1876	37·81	36·81
1877	58·52	36·49
1878	30·69	32·43
1879	31·58	26·21
1880	27·21	32·03
1881	35·42	25·98
1882	41·82	30·39
1883	38·95	29·38
1884	36·59	30·86
1885	33·55	28·27
1886	36·12 (11 months)	22·68 (10 months)
1887	20·22	22·80
1888	29·46	23·02
1889	30·48	29·74
1890	41·23	25·76
1891	39·46	26·38
1892	37·30	26·71
1893	34·17	30·38

